

# MODEL ANALYSES AND GUIDANCE (MAG) APPLICATION

**MAG User's Manual**  
(Documentation Version 3.4)

June 2014

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NCEP Central Operations  
NOAA

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## **Introduction**

The Model Analysis and Guidance website displays a graphical depiction of products available from the National Weather Service's (NWS) Numerical Weather Prediction computer models. The website offers a professional and interactive interface, which showcases the NWS observational database and suite of numerical model analysis and guidance. In an effort to respond to user needs, to protect life and property, and support the nation's growing need for environmental information; a streamlined graphical approach displaying products in making forecasts will serve not only NWS Offices but also the Private and Public Sectors.

The Model Analyses and Guidance (MAG) website is available at <http://mag.ncep.noaa.gov>

## MAG home page

The MAG website's Home page presents the user with the choice of three categories:

- **Model Guidance:** Provides a path to view products created from the National Weather Service's (NWS) numerical model output including regional and global models.
- **Observations and Analyses :** Provides a path to view the Real-Time Mesoscale Analysis (RTMA) products, Upper Air(UAIR) Height Plots, and Upper Air Sounding Plots (Skew T plots)
- **Tropical Guidance:** Provides a path to view products created by the National Weather Service's Tropical Cyclone models. These products are only available when tropical cyclones that meet stated criteria are active in the Atlantic or Pacific areas.

Site users can obtain a description for each category by hovering the mouse pointer over each selection. A text window appears further describing each category.

The world map graphic displays a rectangle around each geographic area selected in the Model Guidance and Observations and Analyses pages. When a user clicks on the map, at the home page, a text box appears alerting the user to "Select Model Guidance, Observations and Analyses, or Tropical Guidance".

Users can access the following information by clicking the links below the world map or expanding the Website Information menu at the top right of the main page:

- Upcoming Changes – A list of changes, improvements and fixes to the site. These are most often derived from requests and inquiries from our user community.
- Users Guide – This document.
- Frequently Asked Questions – A list of questions from our user community where issues are encountered that are outside the control of the web application programmer. These may be related to system configuration tips, or required software and browser plug-ins to quirks we have noted or that have been reported with a particular browser model or version.
- Product Description Document – A document describing the models themselves and the products, the combination of meteorological fields that comprise each product, and the geographic areas covered by each model.

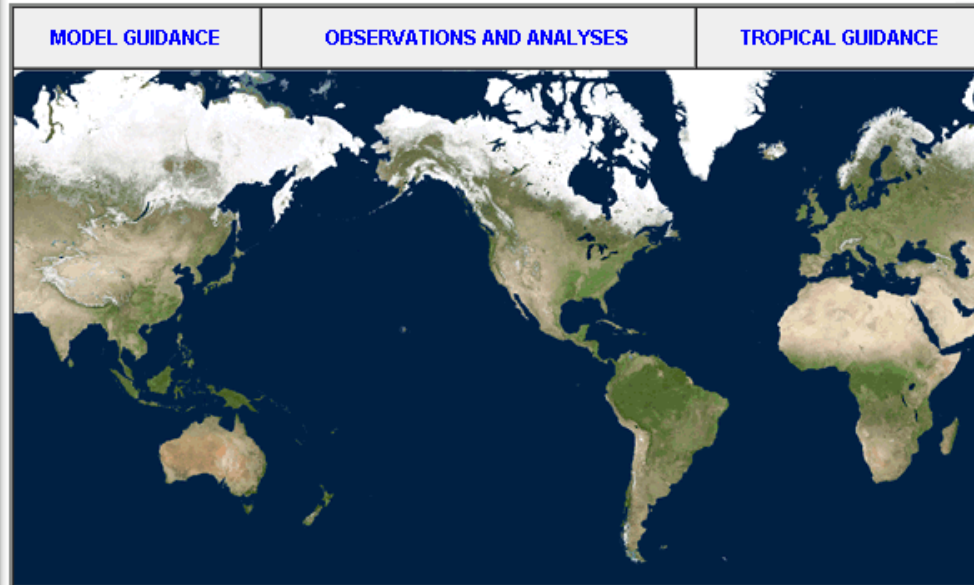
A schedule of proposed changes and the latest news are available by clicking the link: "Check here for the latest news" near the top of the page, below the page title.

## Model Analyses and Guidance

[+ Website Information](#)

[Check here for the Latest News](#)

Select Model Guidance, Observations and Analyses, or Tropical Guidance



[Upcoming Changes](#) | [User's Guide](#) | [Frequently Asked Questions](#) | [Product Description Document](#)

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Figure 1: MAG home page

## **Model Guidance Page:**

The user arrives on this page by clicking on the 'Model Guidance' category from the main index page. (See Figure 2)

- Select the model name of choice from the model list
  - Select region of choice from the region list
- Note: The application automatically highlights the regions that are available for a selected model in red. All other regions are un-selectable and gray.
- If the user selects a region first, then the models that are available for the selected region are highlighted in red while all other models are un-selectable and gray.
  - Click the button 'Reset Selection' to reset choices made in the Model Area or Model Type lists.
  - Click the 'Back' button to go back to the main page.
  - Click the 'Home' to return to the main page.
  - To get a brief description of any of the models/regions, hover over the mode/region names, and a tool tip will appear with a description.

After the user has made the selection for Model and Region, the Parameter page (see Figure 3) for the chosen model/region is displayed.

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[Home](#)

# Model Guidance

Choose a Model Area or re-select a different Model Type

Model Area	NAMER	SAMER	AFRICA	NPAC	EPAC	WNATL
	ATLANTIC	POLAR	ATLPAC	CONUS	HAWAII	ALASKA
	EUROPE	ASIA	SPAC	ARCTIC	GUAM	PR

Model Type	GFS	NAM	SREF	WW3	HRW-NMM	HRW-ARW
	GEFS-SPAG	NAM-HIRES	NAEFS	WW3-ENP	HRW-NMM-AK	HRW-ARW-AK
	GEFS-MNSPRD	RAP	POLAR	WW3-WNA	HRW-NMM-PR	HRW-ARW-PR

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Model Guidance

Home

Reset Selection(s)

Choose a Model Area or re-select a different Model Type

Model Area	NAMER	SAMER	AFRICA	NPAC	EPAC	WNATL
	ATLANTIC	POLAR	ATLPAC	CONUS	HAWAII	ALASKA
	EUROPE	ASIA	SPAC	ARCTIC	GUAM	PR

Model Type	GFS	NAM	SREF	WW3	HRW-NMM	HRW-ARW
	GEFS-SPAG	NAM-HIRES	NAEFS	WW3-ENP	HRW-NMM-AK	HRW-ARW-AK
	GEFS-MNSPRD	RAP	POLAR	WW3-WNA	HRW-NMM-PR	HRW-ARW-PR

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**Figure 2: Model Guidance page**

### Model Guidance Parameter Page:

The user is presented with the parameter page after the Model and Region are chosen from the Model Guidance page. In this section, the Parameter Page is explained after the user chooses a model (i.e. GFS) and region (i.e. Namer).

The Parameter Page presents the user with



- The parameter names available for a selected Model and Region.
- The available model cycles. Note: the cycles are displayed with the latest cycle as the default and is displayed on the right most cell and is highlighted in white
- The available forecast hours are displayed in the dropdown list (see Figure 5), the default is 'Loop All' of the available forecast hours (see Figure 4).

**Back**

**GFS**  
 North America - US, Canada, and northern Mexico  
**Available Model Cycles**  
 (default is latest cycle)  
**Image Size**  
 Large (1280 x 1024) ☐ Medium (1024 x 768) ☒ Small (640 x 480) ☐

**Home**

<b>02/05/2014 18UTC</b>		<b>02/06/2014 00UTC</b>		<b>02/06/2014 06UTC</b>		<b>02/06/2014 12UTC</b>	
<b>PRECIP PARAMS</b>	dom_precip_type	precip_p03	precip_p06	precip_p12	precip_p24	precip_p36	
	precip_p48	precip_p60	precip_ptot				
<b>SFC-LAYER PARAMS</b>	1000_500_thick	1000_850_thick	10m_wnd_precip	850_700_thick	850_temp_mslp_precip		
<b>UPPER AIR PARAMS</b>	200_wnd_ht	250_wnd_ht	300_wnd_ht	500_rh_ht	500_temp_ht		500_vort_ht
	700_rh_ht	850_pw_ht	850_rh_ht	850_temp_ht	850vor_500ht_200wd		850_vort_ht
	925_temp_ht						
<b>FOUR PANEL CHARTS</b>	200_wnd_ht, 500_vort_ht, 1000_500_thick, 850_temp_ht		300_wnd_ht, 850_vort_ht, 700_rh_ht, 10m_wnd_precip				

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Figure 3: Parameter page for model ='GFS' and region = 'Namer'



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GFS

North America - US, Canada, and northern Mexico

[Home](#)

## Available Model Cycles

(default is latest cycle)

## Image Size

Large (1280 x 1024) ☐ Medium (1024 x 768) ☒ Small (640 x 480) ☐

02/05/2014 18UTC		02/06/2014 00UTC		02/06/2014 06UTC		02/06/2014 12UTC			
PRECIP PARAMS	<a href="#">dom_precip_type</a>	<a href="#">precip_p03</a>	<a href="#">precip_p06</a>	<a href="#">precip_p12</a>	<a href="#">precip_p24</a>	<a href="#">precip_p36</a>			
	<a href="#">precip_p48</a>	<a href="#">precip_p60</a>	<a href="#">precip_ptot</a>						
SFC-LAYER PARAMS	<a href="#">1000_500_thick</a>	<a href="#">1000_850_thick</a>	<a href="#">10m_wnd_precip</a>	<a href="#">850_700_thick</a>	<a href="#">850_temp_mslp_precip</a>				
UPPER AIR PARAMS	<a href="#">200_wnd_ht</a>	<a href="#">250_wnd_ht</a>	<a href="#">300_wnd_ht</a>	<a href="#">500_rh_ht</a>	<a href="#">500_temp_ht</a>	<a href="#">500_vort_ht</a>			
	<a href="#">700_rh_ht</a>	<a href="#">850_pw_ht</a>	<a href="#">850_rh_ht</a>	<a href="#">850_temp_ht</a>	<a href="#">850vor_500ht_200wd</a>	<a href="#">850_vort_ht</a>			
	<a href="#">925_temp_ht</a>								
FOUR PANEL CHARTS	<a href="#">200_wnd_ht, 500_vort_ht, 1000_500_thick, 850_temp_ht</a>		<a href="#">300_wnd_ht, 850_vort_ht, 700_rh_ht, 10m_wnd_precip</a>						
FORECAST HOURS	<a href="#">000</a>							<a href="#">Loop All</a>	
	<a href="#">003</a>	<a href="#">006</a>	<a href="#">009</a>	<a href="#">012</a>	<a href="#">015</a>	<a href="#">018</a>	<a href="#">021</a>	<a href="#">024</a>	<a href="#">1 Day</a>
	<a href="#">027</a>	<a href="#">030</a>	<a href="#">033</a>	<a href="#">036</a>	<a href="#">039</a>	<a href="#">042</a>	<a href="#">045</a>	<a href="#">048</a>	<a href="#">2 Day</a>
	<a href="#">051</a>	<a href="#">054</a>	<a href="#">057</a>	<a href="#">060</a>	<a href="#">063</a>	<a href="#">066</a>	<a href="#">069</a>	<a href="#">072</a>	<a href="#">3 Day</a>
	<a href="#">075</a>	<a href="#">078</a>	<a href="#">081</a>	<a href="#">084</a>	<a href="#">087</a>	<a href="#">090</a>	<a href="#">093</a>	<a href="#">096</a>	<a href="#">4 Day</a>
	<a href="#">099</a>	<a href="#">102</a>	<a href="#">105</a>	<a href="#">108</a>	<a href="#">111</a>	<a href="#">114</a>	<a href="#">117</a>	<a href="#">120</a>	<a href="#">5 Day</a>
	<a href="#">123</a>	<a href="#">126</a>	<a href="#">129</a>	<a href="#">132</a>	<a href="#">135</a>	<a href="#">138</a>	<a href="#">141</a>	<a href="#">144</a>	<a href="#">6 Day</a>
	<a href="#">147</a>	<a href="#">150</a>	<a href="#">153</a>	<a href="#">156</a>	<a href="#">159</a>	<a href="#">162</a>	<a href="#">165</a>	<a href="#">168</a>	<a href="#">7 Day</a>
	<a href="#">171</a>	<a href="#">174</a>	<a href="#">177</a>	<a href="#">180</a>	<a href="#">183</a>	<a href="#">186</a>	<a href="#">189</a>	<a href="#">192</a>	<a href="#">8 Day</a>
	<a href="#">204</a>	<a href="#">216</a>							<a href="#">9 Day</a>
	<a href="#">228</a>	<a href="#">240</a>							<a href="#">10 Day</a>
	<a href="#">252</a>	<a href="#">264</a>							<a href="#">11 Day</a>
	<a href="#">276</a>	<a href="#">288</a>							<a href="#">12 Day</a>
	<a href="#">300</a>	<a href="#">312</a>							<a href="#">13 Day</a>
	<a href="#">324</a>	<a href="#">336</a>							<a href="#">14 Day</a>
	<a href="#">348</a>	<a href="#">360</a>							<a href="#">15 Day</a>
<a href="#">372</a>	<a href="#">384</a>							<a href="#">16 Day</a>	

(available forecast hours will have active links)

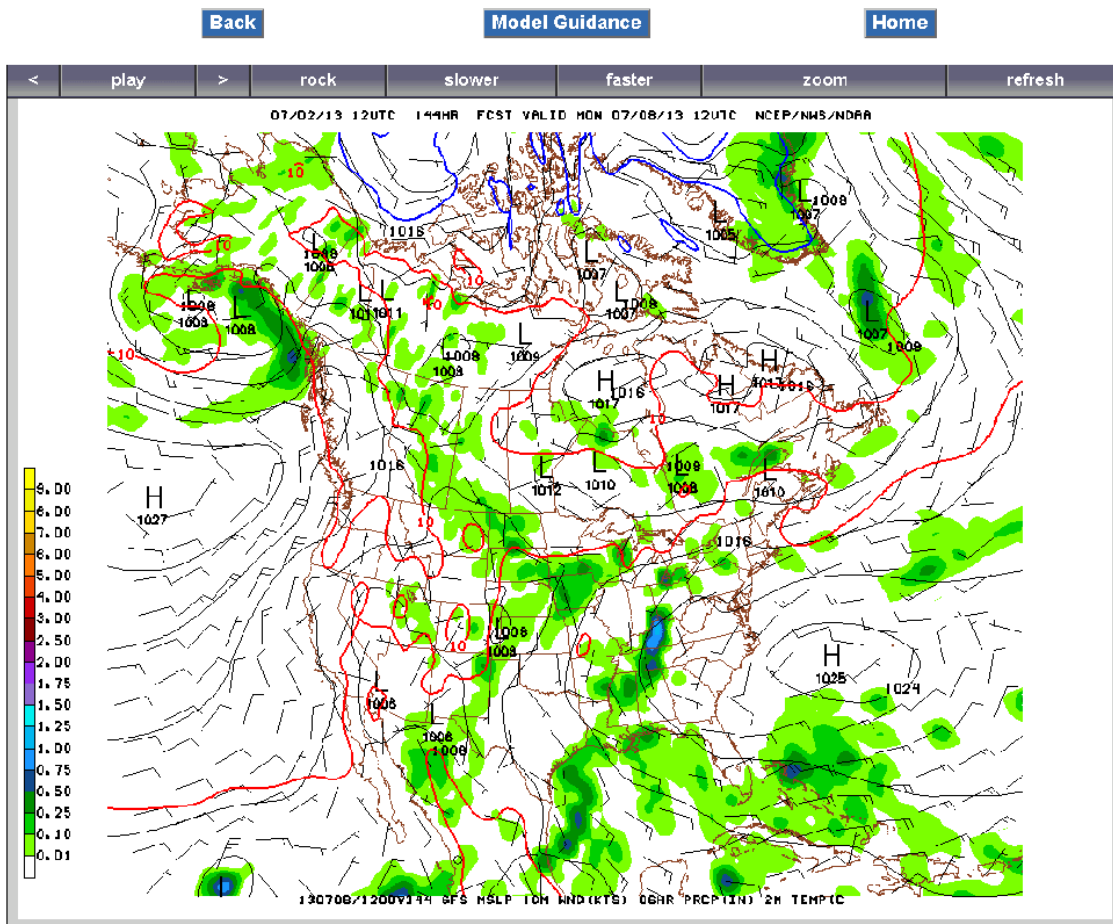
Figure 4: Parameter page with available forecast hours &amp; loops (once parameter is chosen)

To view the graphics for any parameter:

- Select the
  1. parameter name
  2. model cycle
  3. forecast hour or loop option

User selection is highlighted in red.

- Once all the above three selections have been made the page automatically redirects to the graphics display page. If the selection is 'Loop All' or "1/2/3/4/5 Day loop", then the user is presented with a JavaScript animation page that loops through all the images for all forecast hours as shown in Figure 6. If a distinct forecast hour is chosen, the user is shown a gif image as seen in Figure 5.



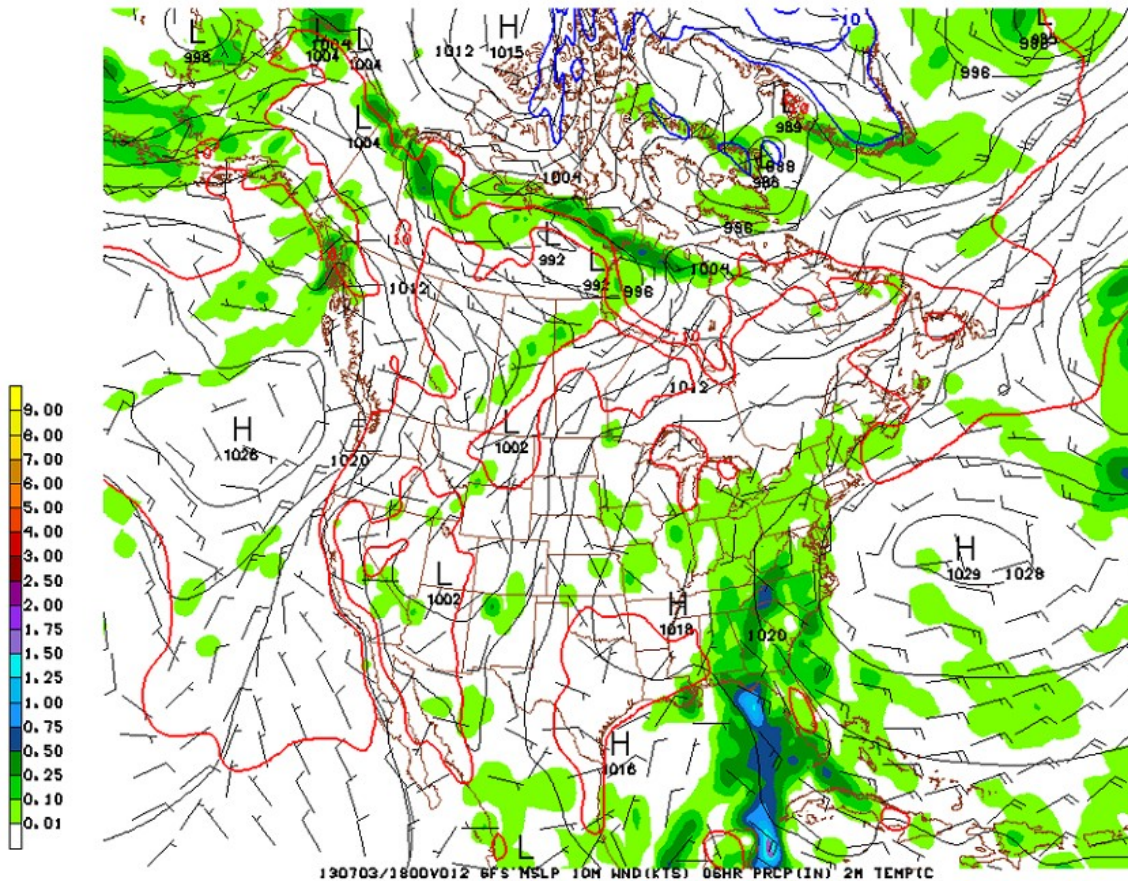
**Figure 5: JavaScript Application to view the graphics in a loop**

JSani, a JavaScript based animation application has replaced the Flash based application, and the earlier Java based application for displaying forecast hours from the models as a progressive series of images. The JSani application was built and is maintained by Bill Bellon of the University of Wisconsin-Madison Space Science & Engineering Center (SSEC).

More information about the software can be found at <http://www.ssec.wisc.edu/~billb/jsani>

[Back](#)[Model Guidance](#)[Home](#)[http://magtest.ncep.noaa.gov/data/gfs/06/gfs\\_namer\\_012\\_10m\\_wnd\\_precip.gif](http://magtest.ncep.noaa.gov/data/gfs/06/gfs_namer_012_10m_wnd_precip.gif)[<< Previous](#)[Zoom In](#) | [Normal](#) | [Zoom Out](#)[Next >>](#)

07/03/13 06UTC 012HR FCST VALID MED 07/03/13 18UTC NCEP/NHS/NOAA

[<< Previous](#)[Next >>](#)

**Figure 6: Graphics page for a selected forecast hour**

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by clicking on the “Zoom In | Normal | Zoom Out “ links, provided just above the image.

The static URL to view the image is provided just below the title of the page.

## Observations and Analyses Page:

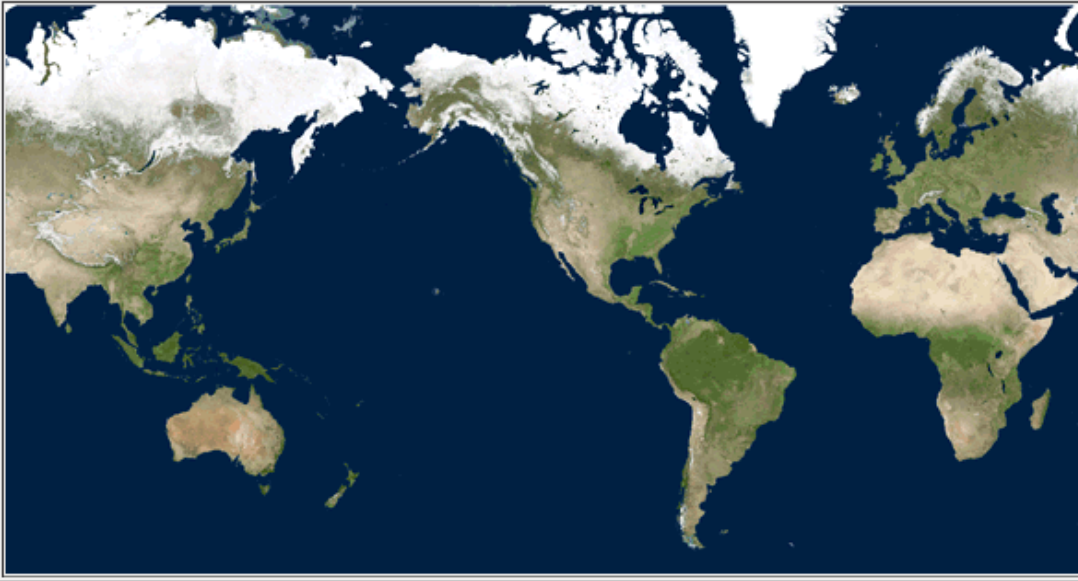
The user can choose the “Observations and Analyses” category from the MAG home page to get to the Observations and Analyses page

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Reset Selection(s)

To view images, select an Obs/Analysis Type and Obs/Analysis Area

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	NAMER	SAMER	AFRICA	NPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACNW	WI	GUAM	FL



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**Figure 7: Observations and Analyses Page**

This page (see Figure 7) provides the user with three types for Obs/Analyses :

- UAIR (Upper Air)
- SKEWT (Skew-T plots)
- RTMA (Real Time Mesoscale Analysis)
- RTMA-GUAM (Real Time Mesoscale Analysis for the Guam region)



## Observations and Analysis page for UAIR

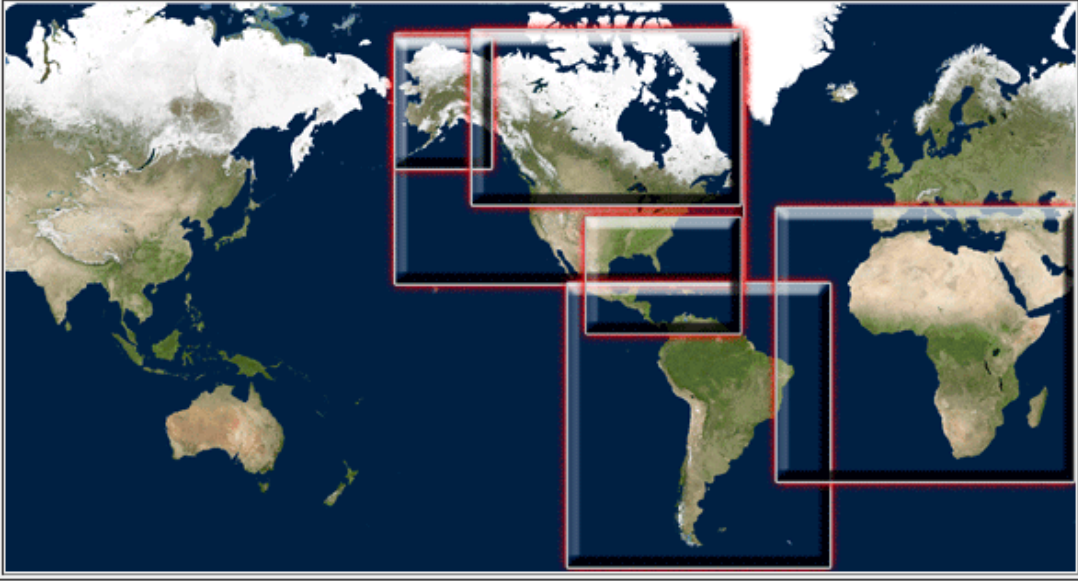
When the user selects UAIR, the regions corresponding to Upper Air gets highlighted in red and the other regions are deselected and greyed out as shown in Figure 8.

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Reset Selection(s)

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	HAMER	SAMER	AFRICA	NPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACNW	WI	GUAM	FL



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**Figure 8: Observations and Analyses page for UAIR**

To view the Upper Air Parameters, select a region of choice.

Note: The user can also choose a region first, and the corresponding Obs/Analysis Type is highlighted in red. The other types are “grayed out” / deselected.

## UAIR parameter page:

In this section, the Upper Air parameter page is explained when the user selects North America (Namer) as region of interest (see Figure 10). The page presents all the available model cycles in one row. The next row presents the available mandatory levels in millibars.

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UAIR  
North America - US, Canada, and northern Mexico

[Home](#)

Available Model Cycles  
(default is latest cycle)

07/02/2013 12UTC	07/02/2013 18UTC	07/03/2013 00UTC	07/03/2013 06UTC								
LEVEL	1000	925	850	700	500	400	300	250	200	150	100



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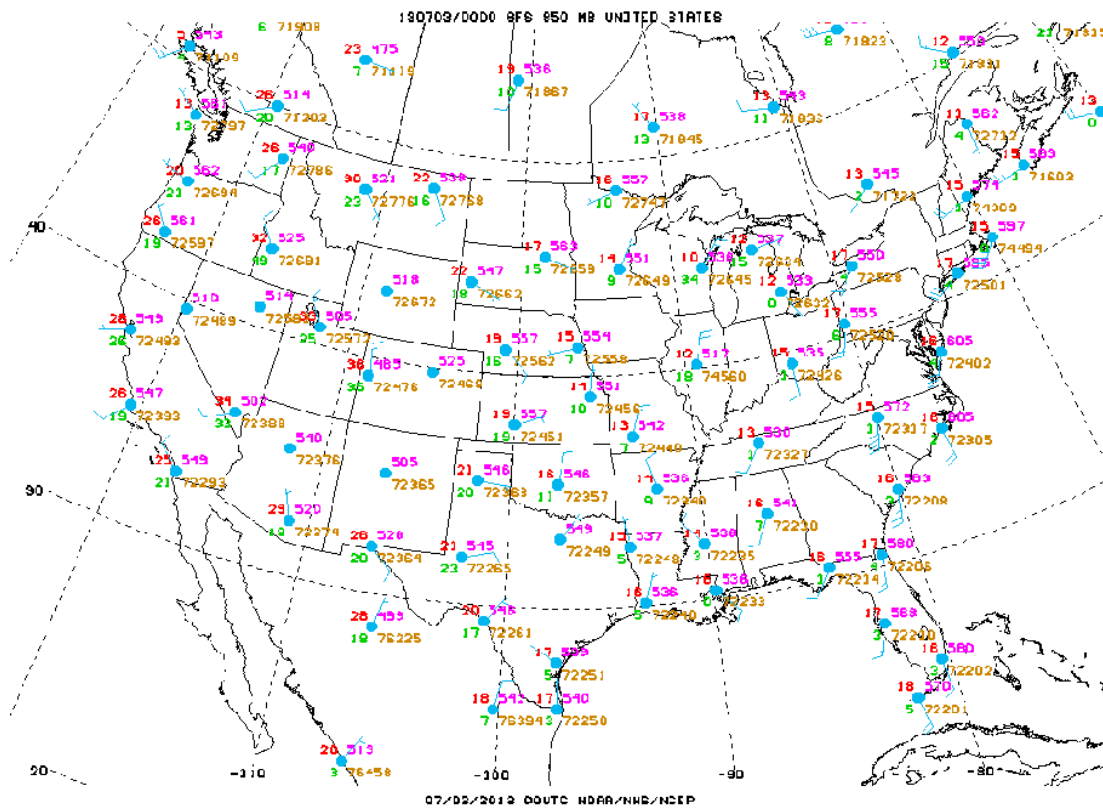
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**Figure 9: UAIR page for region 'Namer'**

- Select any 'Available Model Cycles'. Note: the default is always highlighted in red and is displayed in the right most cell.
- Select a mandatory level.
- The user is presented with the graphic similar to what is shown in Figure 10.

[Back](#)[Obs & Analysis](#)[Home](#)[http://mragest.ncep.noaa.gov/data/air/NOAIR\\_namer\\_850.gif](http://mragest.ncep.noaa.gov/data/air/NOAIR_namer_850.gif)[Zoom In](#) | [Normal](#) | [Zoom Out](#)

**Figure 10: Upper Air graphics page**

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by clicking on the “Zoom In | Normal | Zoom Out “ links provided just above the image.

The static URL to view the image is provided just below the title of the page.



## Observations and Analysis page for Skew-t Plots

This section describes the usage of the MAG application to view Skew-t plots.

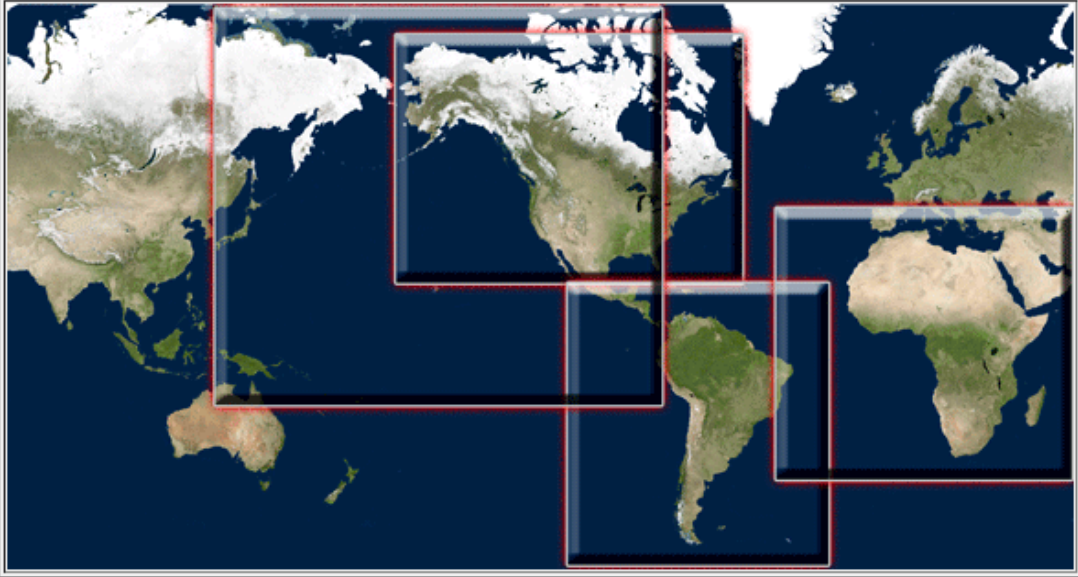
Select the Observations/Analyses Type “SKEWT” from the Observations and Analyses page.

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Reset Selection(s)

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	HAMER	SAMER	AFRICA	HPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACNW	WI	GUAM	FL



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**Figure 11: Obs/Analyses page for Skew-t plots**

The regions that correspond to the SKEWT type get highlighted in red.  
Select a region.

## Skew-T Parameter Page

Figure 12 below shows the Skew-t page for region North America (Namer). The page presents the available cycles, with the default being the latest cycle and is displayed in the right most cell highlighted in red.

Select the desired cycle, and the user is presented with the skewt-t plot as shown in Figure 13.

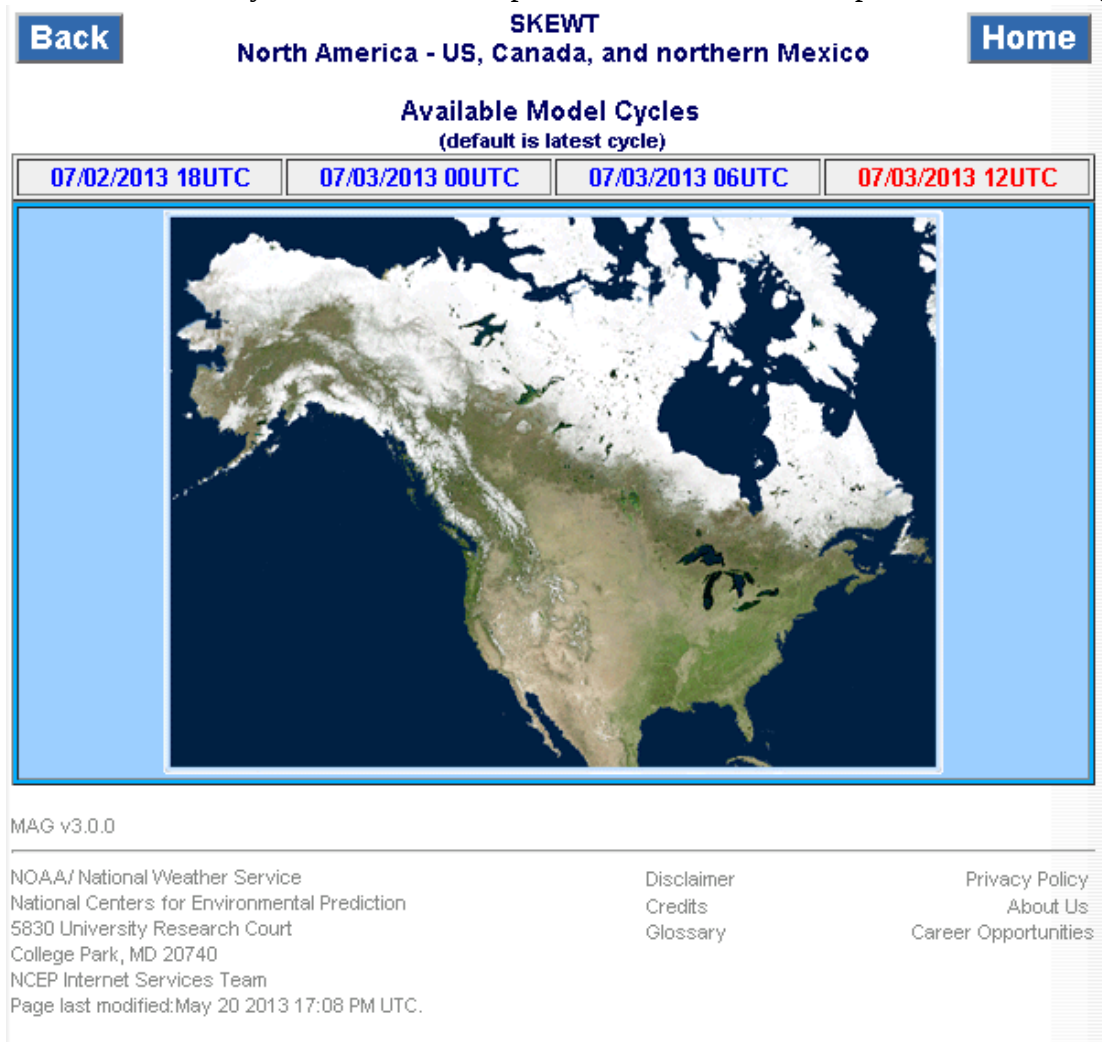
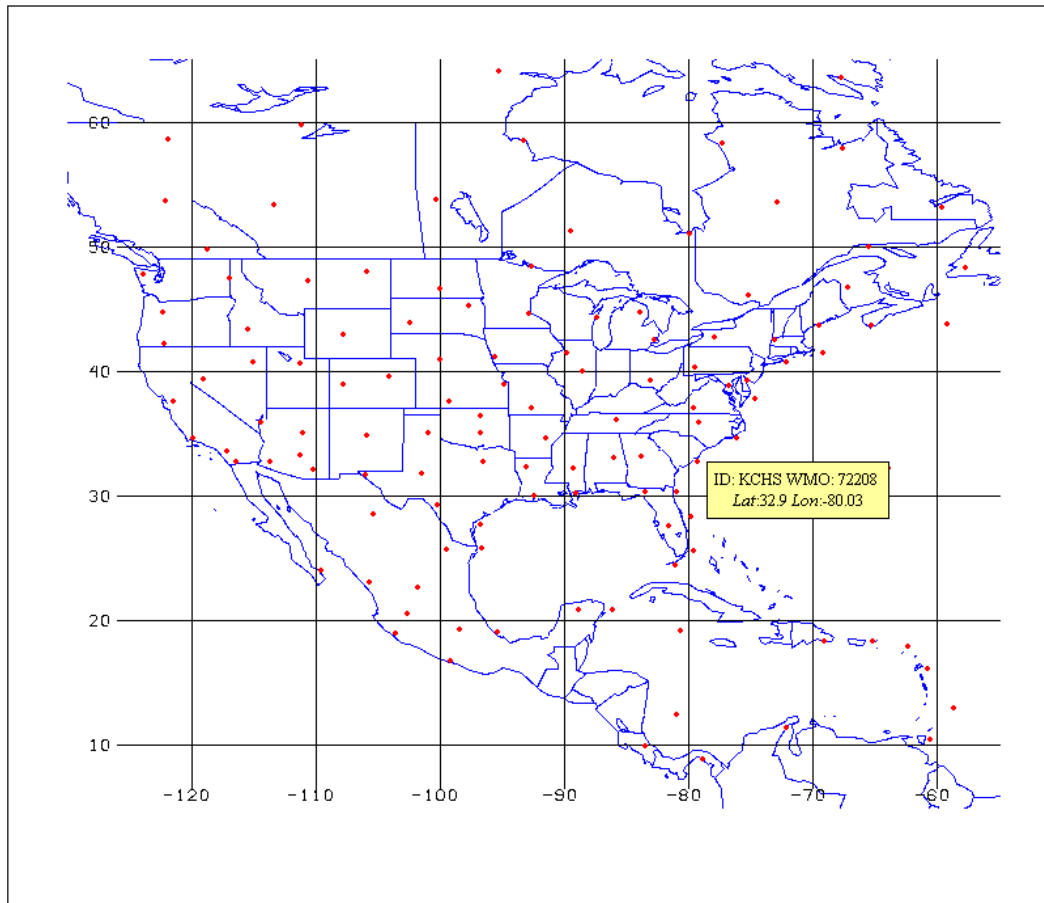


Figure 12: Skew-T page for region "NAMER"

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Upper Air Skew-T diagrams  
namer 20130703 12 UTC

[Home](#)[Display table of stations](#)

**Figure 13: Skew-t plot**

The user can click on the red dots, which represent various stations, to view the graphic. The user is presented with skew-t graphics as shown in Figure 14.

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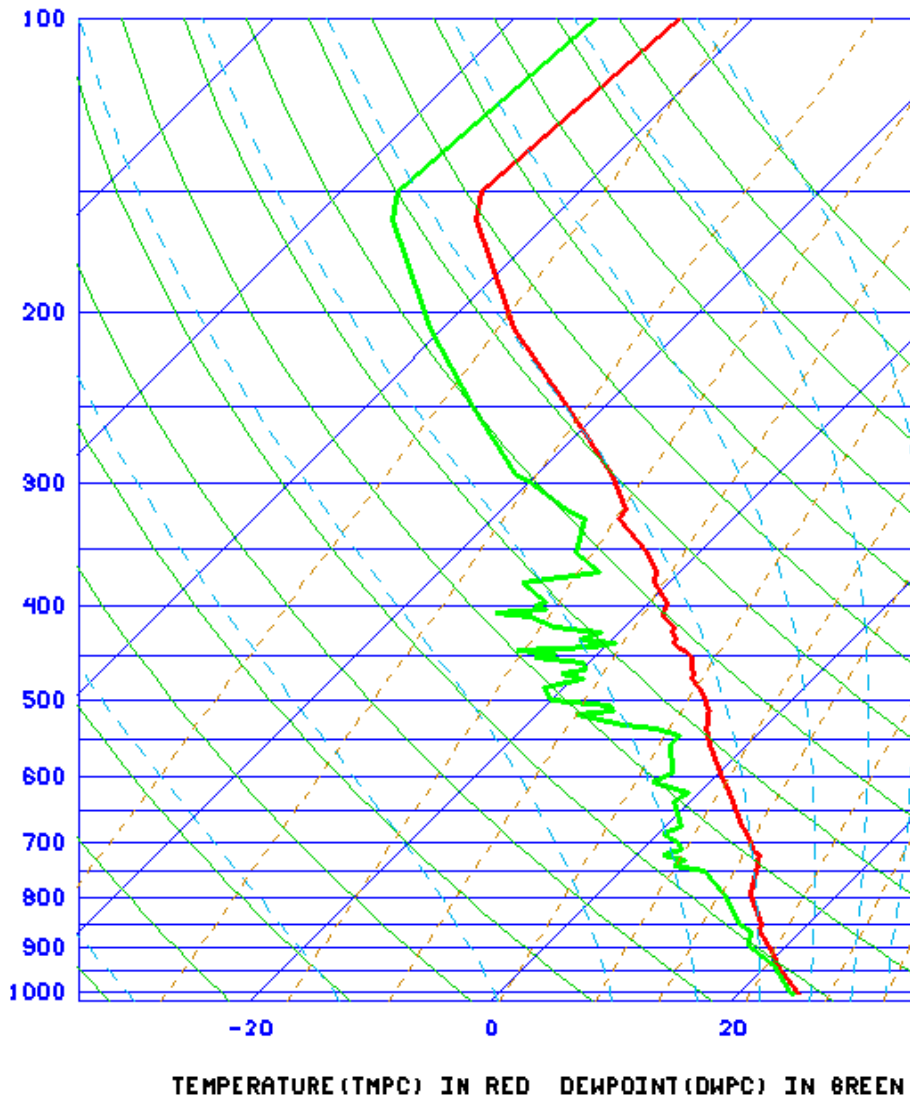
## Skew-T KCHS 20130703 12UTC

[Home](#)

[http://magtest.ncep.noaa.gov/data/skewt/12/skewt\\_KCHS\\_skt.gif](http://magtest.ncep.noaa.gov/data/skewt/12/skewt_KCHS_skt.gif)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)

130703/1200 72208 KCHS LCLP: 997 LIFT: -9999 PWAT: 51



**Figure 14: Skew-T graphics**

Note: The display of Skew-T graphics available can be listed in a table rather than on a map. When the user chooses a desired cycle, click on the hypertext link "Display Table of Stations" to get a list of stations (as shown in Figure 16) instead of the regional map with red dots representing the various stations.

ID	Latitude	Longitude	Country code	WMO block/station
<a href="#">FAPE</a>	-33.98	26.62	ZA	688420
<a href="#">FACT</a>	-33.97	18.60	ZA	688160
<a href="#">FADY</a>	-30.67	24.00	ZA	685380
<a href="#">FABL</a>	-29.10	26.30	ZA	684420
<a href="#">68312</a>	-26.53	18.12	NM	68312
<a href="#">FAIR</a>	-25.92	28.22	ZA	682630
<a href="#">FMSD</a>	-25.03	46.95	MG	671970
<a href="#">FYWW</a>	-22.57	17.10	NM	681100
<a href="#">FMMI</a>	-18.80	47.48	MG	670830
<a href="#">61901</a>	-15.93	-5.67	HE	61901
<a href="#">FCPP</a>	-4.82	11.90	BC	644000
<a href="#">FOOL</a>	0.47	9.42	GO	645000
<a href="#">FKKD</a>	4.00	9.73	CM	649100
<a href="#">DIAP</a>	5.25	-3.93	IV	655780
<a href="#">HAAB</a>	9.03	38.75	ET	634500
<a href="#">DFFD</a>	12.35	-1.52	HV	655030
<a href="#">DRRN</a>	13.48	2.17	NR	610520
<a href="#">GOTT</a>	13.77	-13.68	SG	616870
<a href="#">GOOY</a>	14.73	-17.50	SG	616410
<a href="#">DRZA</a>	16.97	7.98	NR	610240
<a href="#">GQNN</a>	18.10	-15.95	MT	614420
<a href="#">GQPP</a>	20.93	-17.03	MT	614150
<a href="#">60680</a>	22.78	5.52	AL	60680
<a href="#">HESN</a>	23.97	32.78	EG	624140
<a href="#">62403</a>	26.20	32.75	EG	62403
<a href="#">62423</a>	27.05	27.98	EG	62423
<a href="#">60630</a>	27.23	2.50	AL	60630
<a href="#">DAOE</a>	27.70	-8.17	AL	606560
<a href="#">60018</a>	28.32	-16.38	CR	60018
<a href="#">HEMM</a>	31.33	27.22	EG	623060
<a href="#">DAOR</a>	31.62	-2.23	AL	605710
<a href="#">DTTZ</a>	33.92	8.10	TS	607600
<a href="#">DAAG</a>	36.72	3.25	AL	603900
<a href="#">DTTA</a>	36.83	10.23	TS	607150

**Figure 15: Station table for Skew-T graphics**

The user can click on the station code to view the skew-T graphic.

## Observations and Analysis page for RTMA(Real-time Mesoscale Analysis Model) and RTMA-GUAM


When the user selects the 'RTMA' Obs/Analyses type from the Observations and Analyses page, the corresponding regions available for RTMA get highlighted in white. The remaining regions are de-selected. When the user selects a region of choice, the user is presented with the RTMA page as shown in Figure 16.

RTMA-GUAM is another model type provided specifically for the Guam region. The user interface provided for the Guam region is the same the other regions for the RTMA model.

[Back](#)
**Observations and Analyses**
[Home](#)

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	NAMER	SAMER	AFRICA	NPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACHW	WI	GUAM	FL



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**Figure 16: Observations and Analyses page for "RTMA"**



## RTMA/RTMA-GUAM Parameter page

The RTMA page presents the user with the available cycles with the default being latest cycle which is highlighted in red and is displayed in the right most cell as shown in Figure 16. The available Surface Parameter names are displayed above the map. When the user selects one of the parameters, the page is redirected to the graphics page as shown in Figure 17.

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RTMA  
Carolinass

[Home](#)

Available Model Cycles  
(default is latest cycle)

<a href="#">07/02/2013 16UTC</a>	<a href="#">07/02/2013 17UTC</a>	<a href="#">07/02/2013 18UTC</a>	<a href="#">07/02/2013 19UTC</a>	<a href="#">07/02/2013 20UTC</a>	<a href="#">07/02/2013 21UTC</a>
<a href="#">07/02/2013 22UTC</a>	<a href="#">07/02/2013 23UTC</a>	<a href="#">07/03/2013 00UTC</a>	<a href="#">07/03/2013 01UTC</a>	<a href="#">07/03/2013 02UTC</a>	<a href="#">07/03/2013 03UTC</a>
<a href="#">07/03/2013 04UTC</a>	<a href="#">07/03/2013 05UTC</a>	<a href="#">07/03/2013 06UTC</a>	<a href="#">07/03/2013 07UTC</a>	<a href="#">07/03/2013 08UTC</a>	<a href="#">07/03/2013 09UTC</a>
<a href="#">07/03/2013 10UTC</a>	<a href="#">07/03/2013 11UTC</a>	<a href="#">07/03/2013 12UTC</a>	<a href="#">07/03/2013 13UTC</a>	<a href="#">07/03/2013 14UTC</a>	<a href="#">07/03/2013 15UTC</a>

<b>SURFACE PARMS</b>	<a href="#">10m_wnd</a>	<a href="#">2m_dwpt</a>	<a href="#">2m_temp</a>
--------------------------	-------------------------	-------------------------	-------------------------



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Figure 17: RTMA page

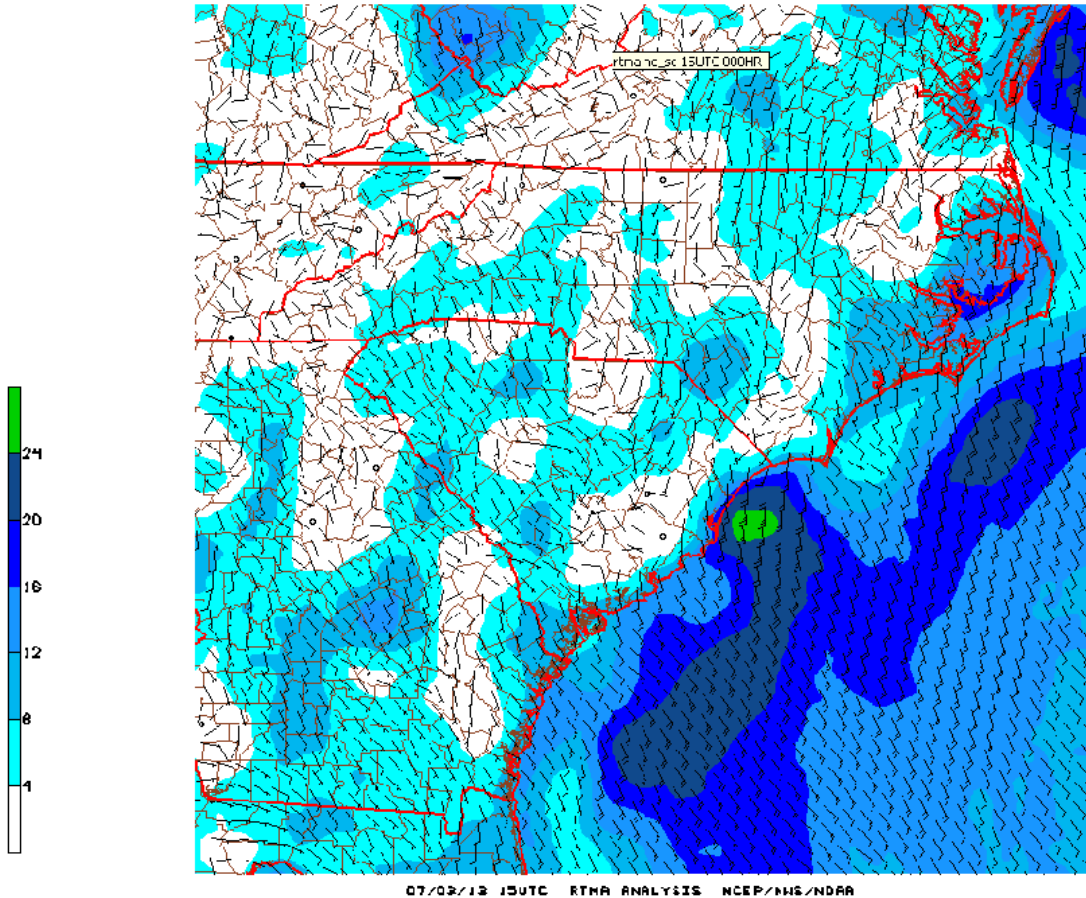


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[http://magtest.ncep.noaa.gov/data/rtna/15/rtna\\_rc\\_sc\\_001\\_10m\\_wnd.gif](http://magtest.ncep.noaa.gov/data/rtna/15/rtna_rc_sc_001_10m_wnd.gif)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)

130703/1500 RTMA CAROLINAS 10-METER WIND SPEED (KNOTS) / DIRECTION



**Figure 18: RTMA graphics**

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by clicking on the “Zoom In | Normal | Zoom Out “ links provided just above the image.

The static URL to view the image is provided just below the title of the page.

## Tropical Guidance Page

The Tropical Guidance Page displays the available Model type and the Storm name as shown in Figure 19. When the user selects a model the corresponding storm name is highlighted in white.

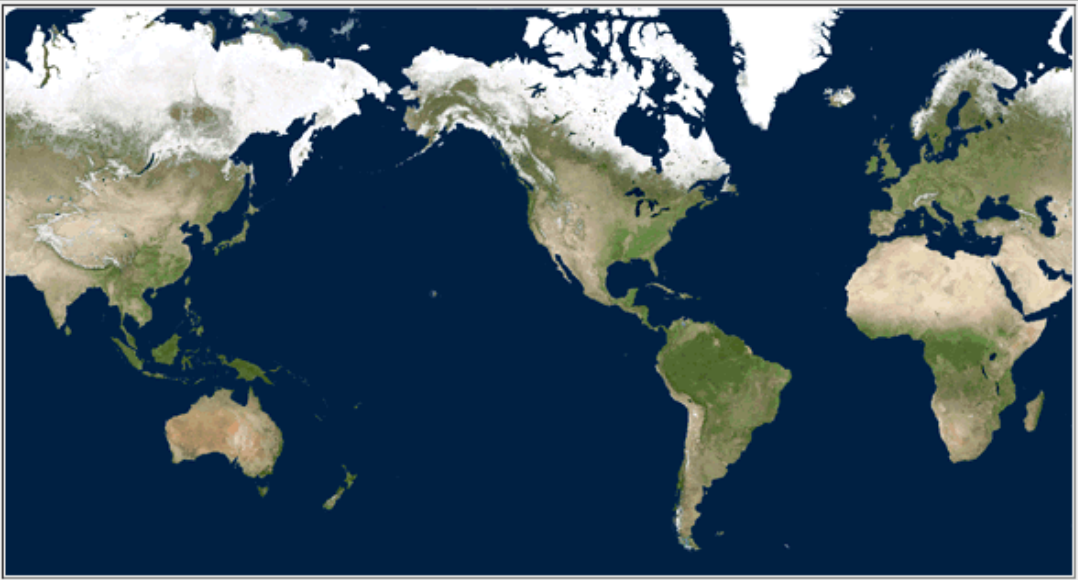
After the users select the desired storm name, then they are directed to the Tropical Guidance parameter page as shown in Figure20.

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Reset Selection

To view images, select a Model Type and Model Storm

Model Type	GHM-FULL	GHM-NESTED	HWRF-FULL	HWRF-NESTED
Model Storm	dalila04e			



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Figure 19: Tropical Guidance page.

## Tropical Guidance Parameter page:

This page presents the user with

- The parameter names available for a selected Model and Storm name.
- The available model cycles. Note: the cycles are displayed with the latest cycle as the default and is displayed on the right most cell and is highlighted in red
- The available forecast hours are displayed once the parameter is selected (see Figure 22).

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**GHM-FULL**  
 dalila04e

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**Available Model Cycles**  
 (default is latest cycle)

<a href="#">20130702 06 UTC</a>	<a href="#">20130702 12 UTC</a>	<a href="#">20130702 18 UTC</a>	<a href="#">20130703 00 UTC</a>
---------------------------------	---------------------------------	---------------------------------	---------------------------------

<b>SFC-LAYER PARAMS</b>	<a href="#">mslp_10wnd</a>					
<b>UPPER AIR PARAMS</b>	<a href="#">200_vort_ht</a>	<a href="#">500_rh_omega</a>	<a href="#">500_vort_ht</a>	<a href="#">700_vort_ht</a>	<a href="#">850_temp_precip</a>	<a href="#">850vor_500ht_200wd</a>
	<a href="#">850_vort_ht</a>					

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**Figure 20: Tropical Guidance Parameter page**

To view the graphics for any parameter:

- Select the
  - Model cycle
  - Forecast hour (default is always 'loop all').
  - Parameter name

User selection is highlighted in white.

- Once all the above three selections have been made the page automatically redirects to the graphics display page. If the forecast hour is 'Loop All' or "1/2/3/4/5 Day loop", then the user is presented with a JavaScript page that loops through all the images for all forecast hours as shown in Figure 22. If a distinct forecast hour is chosen from the drop down list, the user is shown a gif image.

[Back](#)GHM-FULL  
dalila04e[Home](#)

## Available Model Cycles

(default is latest cycle)

[20130702 06 UTC](#)[20130702 12 UTC](#)[20130702 18 UTC](#)[20130703 00 UTC](#)

SFC- LAYER PARAMS	<a href="#">mslp_10wnd</a>					
UPPER AIR PARAMS	<a href="#">200_vort_ht</a>	<a href="#">500_rh_omega</a>	<a href="#">500_vort_ht</a>	<a href="#">700_vort_ht</a>	<a href="#">850_temp_precip</a>	<a href="#">850vor_500ht_200wd</a>
	<a href="#">850_vort_ht</a>					

FORECAST HOURS	<a href="#">000</a>				<a href="#">Loop All</a>
	<a href="#">006</a>	<a href="#">012</a>	<a href="#">018</a>	<a href="#">024</a>	<a href="#">1 Day</a>
	<a href="#">030</a>	<a href="#">036</a>	<a href="#">042</a>	<a href="#">048</a>	<a href="#">2 Day</a>
	<a href="#">054</a>	<a href="#">060</a>	<a href="#">066</a>	<a href="#">072</a>	<a href="#">3 Day</a>
	<a href="#">078</a>	<a href="#">084</a>	<a href="#">090</a>	<a href="#">096</a>	<a href="#">4 Day</a>
	<a href="#">102</a>	<a href="#">108</a>	<a href="#">114</a>	<a href="#">120</a>	<a href="#">5 Day</a>
	<a href="#">126</a>				

(available forecast hours will have active links)

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Figure 21: Tropical Guidance Parameter page with available forecast hours and loop options

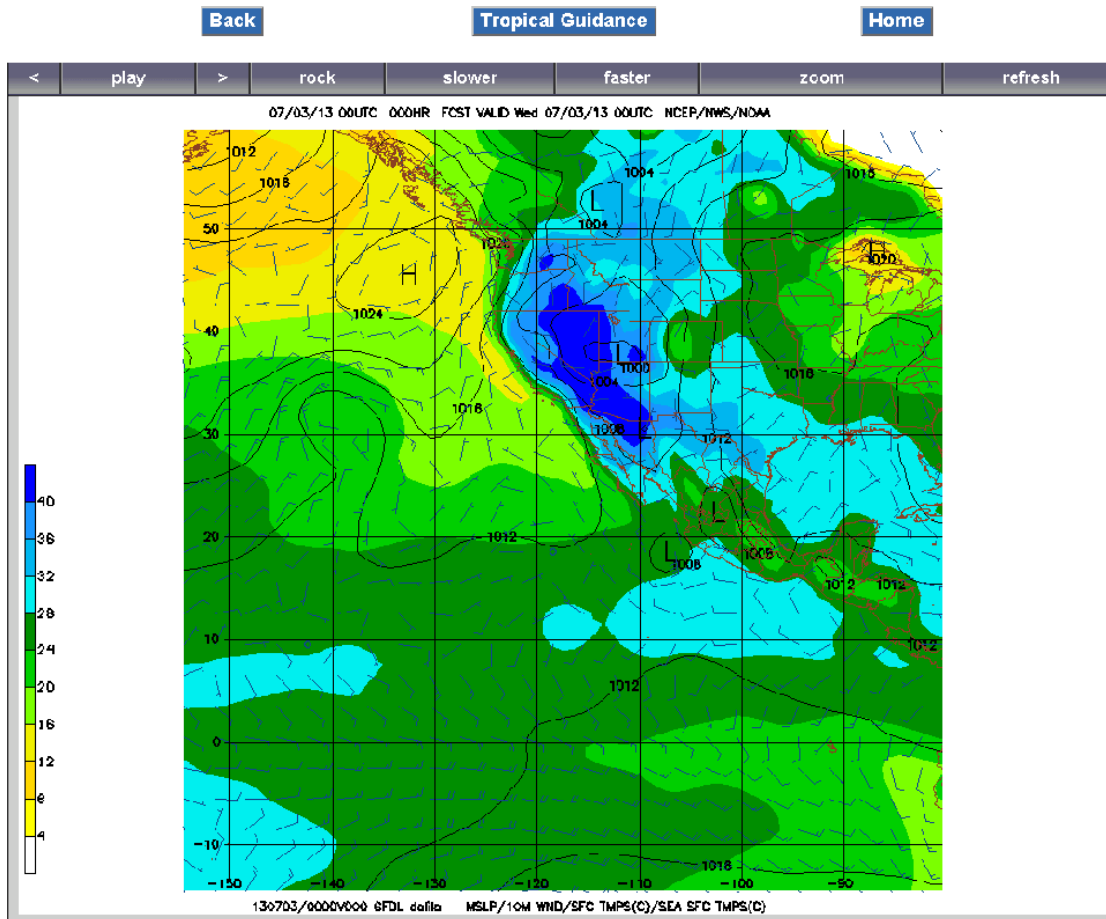


Figure 22: JavaScript animation page for Tropical Guidance parameter

When there are no active storms a page will be displayed notifying the user that no storms are available at this time.